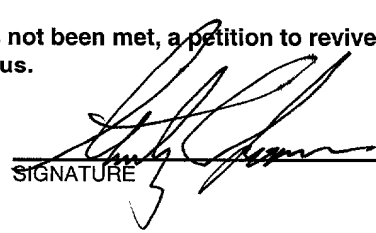


FORM PTO-1390 (REV 11-2000)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER 677-27
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 10/009731 <small>unknown</small>
INTERNATIONAL APPLICATION NO. PCT/FR00/01675	INTERNATIONAL FILING DATE 16/06/2000	PRIORITY DATE CLAIMED 17/06/1999
TITLE OF INVENTION METHOD AND DEVICE FOR IDENTIFYING A TELEVISION CHANNEL SELCTED BY A DIGITAL DECODER OR RECEIVER/DECODER		
APPLICANT(S) FOR DO/EO/US LAURES, A. et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The U.S. has been elected by the expiration of 19 months from the priority date (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)). a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> A English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 To 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A change of power of attorney and/or address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information. PTO Form 1449		

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.51) 10/009731		INTERNATIONAL APPLICATION NO. PCT/FR00/01675		ATTORNEY'S DOCKET NUMBER 677-27	
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21. <input checked="" type="checkbox"/> The following fees are submitted:					CALCULATIONS PTO USE ONLY				
BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5): -- Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1040.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.....\$890.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO\$740.00 -- International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)\$710.00 -- International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4).....\$100.00 <div style="text-align: right;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div>					<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align: right;">\$</td> <td style="width:60%; text-align: center;">890.00</td> <td style="width:30%;"></td> </tr> </table>		\$	890.00	
\$	890.00								
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).					<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align: right;">\$</td> <td style="width:60%; text-align: center;">130.00</td> <td style="width:30%;"></td> </tr> </table>		\$	130.00	
\$	130.00								
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE						
Total Claims	14	-20 =	0	X	\$18.00	\$ 0.00			
Independent Claims	2	-3 =	0	X	\$84.00	0.00			
MULTIPLE DEPENDENT CLAIMS(S) (if applicable)					\$280.00	\$ 0.00			
CLAIM FEES ARE NOT BEING PAID AT THIS TIME				TOTAL OF ABOVE CALCULATIONS =		\$ 1020.00			
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.						0.00			
SUBTOTAL =					\$	1020.00			
Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).						0.00			
TOTAL NATIONAL FEE =					\$	1020.00			
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property					+	\$ 0.00			
Fee for Petition to Revive Unintentionally Abandoned Application (\$1280.00 - Small Entity = \$640.00)					+	\$ 0.00			
TOTAL FEES ENCLOSED =					\$	1020.00			
					Amount to be:				
					refunded	\$			
					Charged	\$			

a. <input checked="" type="checkbox"/> A check in the amount of \$1020.00 to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$_____ to cover the above fees. A duplicate copy of this form is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed. d. <input checked="" type="checkbox"/> The entire content of the foreign application(s), referred to in this application is/are hereby incorporated by reference in this application.	<div style="text-align: center;">  SIGNATURE </div> <div style="text-align: center;"> Stanley C. Spooner NAME </div>
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NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

NIXON & VANDERHYTE P.C.
 1100 North Glebe Road, 8th Floor
 Arlington, Virginia 22201-4714
 Telephone: (703) 816-4000

27,393 REGISTRATION NUMBER	December 17, 2001 Date
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

LAURES, A. et al.

Atty. Ref.: 677-27

Serial No. unknown

Group:

Filed: December 17, 2001

Examiner:

For: METHOD OF IDENTIFYING, WITH A USER DEVICE SUCH AS AN
AUDIENCE-RATER, A TELEVISION CHANNEL SELECTED BY A DIGITAL
DECODER OR RECEIVER/DECODER

* * * * *

December 17, 2001

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

In order to place the above-identified application in better condition for
examination, please amend the application as follows:

IN THE SPECIFICATION

Please substitute the following paragraphs in the specification for corresponding
paragraphs previously presented. A copy of the amended specification paragraphs
showing current revisions is attached.

Page 1, before the first line, insert as a separate paragraph:

This application is the U.S. national phase of international application
PCT/FR00/01675 filed 16 June 2000, which designated the U.S.

IN THE CLAIMS

Please substitute the following amended claims for corresponding claims previously presented. A copy of the amended claims showing current revisions is attached.

7. The identification method of claim 5, in which, in step c), a prefix is added to the message identifying the type of transition represented by the message, either a change in state or some other transition.
8. The identification method of claim 5, in which, in step c), the message includes at least one piece of information taken from the group comprising: a referenced from the subscriber holding the decoder; a reference identifying the decoder; rating verification data transmitted over the network and received by the decoder; time and date information; and a message number which is incremented each time a new message is produced by the decoder.

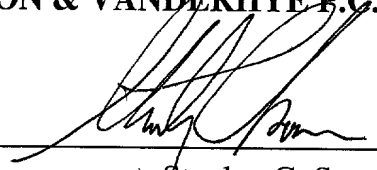
REMARKS

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page(s) is captioned "**Version With Markings To Show Changes Made.**"

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: _____


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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION

Page 1, before the first line, insert as a separate paragraph:

This application is the U.S. national phase of international application
PCT/FR00/01675 filed 16 June 2000, which designated the U.S.

IN THE CLAIMS

7. The identification method of claim 5 ~~or claim 6~~, in which, in step c), a prefix is added to the message identifying the type of transition represented by the message, either a change in state or some other transition.

8. The identification method of claim 5 ~~or claim 6~~, in which, in step c), the message includes at least one piece of information taken from the group comprising: a referenced from the subscriber holding the decoder; a reference identifying the decoder; rating verification data transmitted over the network and received by the decoder; time and date information; and a message number which is incremented each time a new message is produced by the decoder.

A METHOD OF ENABLING A USER DEVICE SUCH AS AN AUDIENCE-RATER TO IDENTIFY A TV CHANNEL SELECTED BY A DIGITAL DECODER OR RECEIVER/DECODER

5 The present invention relates to identifying TV channels selected by equipment such as a digital decoder (or a receiver/decoder) associated with a TV set or a video recorder.

10 The identification of a program, i.e. the medium conveying the pictures and the sounds, is particularly useful in the audience-rating field, i.e. when measuring audiences. For statistical purposes, it is essential to be able at all times to identify which channel, i.e. the entity that produced the content which is being conveyed by the program, corresponds to the program being watched
15 (or recorded) at a given instant in the home where the inquiry is being performed.

20 Nevertheless, this application to audience rating is not limiting, and it will be understood that the invention could be used for other purposes, e.g. for displaying or storing (e.g. while recording) in the clear the program channel being watched at a given instant.

25 The decoder or receiver/decoder (often referred to as an integrated receiver-decoder "IRD") is generally in the form of a box connected to a digital TV broadcast network, whether broadcasting takes place by cable, by satellite, or by terrestrial transmission.

30 In addition to receiving, demodulating, and demultiplexing the signals it receives, the box also performs certain other functions that TV sets are not designed to perform, in particular controlling access to services (managing subscriptions, paying for viewing, etc.) and interfacing with a return channel going back to the manager of the network via a telephone line connected to the decoder.

35 The output of the decoder is connected to the TV set or to the video recorder by means of standard interfaces,

and it is also connected to the telephone network for managing the return path.

When it is desired, for audience-rating purposes, to identify the channel viewed or recorded by the subscriber, a first solution consists in recognizing the carrier frequency (or communications channel) of the program selected by the decoder, and in identifying the channel from a correspondence table matching frequencies to channels and stored in the audience rater.

Nevertheless, that solution is quite difficult to implement since the information in the correspondence table is specific to a given network at a given instant. It is therefore necessary to prepare as many different tables as there are networks and, furthermore, to reprogram all of those tables each time there is a change in the frequency plan of the network, or each time new programs are added.

Furthermore, the technique which consists in analyzing the carrier frequency or the communications channel number is a technique that is insufficient in the context of digital TV since a plurality of different programs (or services) can be multiplexed on a common communications channel.

Another channel-identification technique consists in proceeding in deferred and indirect manner by recording samples of the sound and/or the picture of the television program delivered by the decoder, together with information identifying the time at which the sample was taken. This information is stored locally and subsequently transferred and analyzed at the computer center of the audience-rating operator, where the information is correlated with recordings made at the same instants of the programs on the various channels, so as to be able to identify the channel corresponding to the program in this manner.

That technique is not very intrusive so far as the decoder is concerned (it suffices to record the signal

delivered by its video output), however it is extremely cumbersome to implement, it requires large amounts of computer power, and also needs local memory and frequent connection between the audience rater and its collecting system. Furthermore, 100% correlation is never obtained so there always remains a fraction of samples for which it is not possible to identify the channel being watched.

An object of the invention is to propose a method capable of identifying the channel selected by a digital decoder while avoiding all of the above drawbacks.

The procedure proposed by the invention consists in identifying the selected channel by analyzing within the decoder digital channel-identification information that accompanies the digital video signal, and in forwarding this channel-identification information over a computer link between the decoder and the audience rater so that the audience rater is informed by the decoder each time there is a change of channel.

To this end, the invention proposes identifying the television channel selected by the digital decoder and/or receiver/decoder by implementing the steps consisting in:

- a) taking from within the decoder digital data forming a channel identifier;
- b) detecting a change in the selected channel;
- c) when a change is detected, producing a digital data message including the new channel identifier;
- d) transmitting the message to the user device; and
- e) making use of the message within the user device, in particular for statistical purposes.

Steps a) to c) are implemented most advantageously by software means internal to the decoder, in particular incorporated in the general control software of the decoder or its access control module, where applicable.

Also very advantageously, step d) is implemented via a non-specific access port of the decoder, in particular a serial or parallel computer port, or by making a branch

connection to the connector for a microcircuit or "smart" card.

It is also possible to detect a change in an access condition to the selected channel and, in step c), to
 5 produce an access message including an access condition indicator or a corresponding access condition transition indicator. Similarly, it is possible to detect a change of state in the decoder between active, standby, and off states, and in step c) to produce an access message
 10 including a state indicator or a corresponding change-of-state indicator.

The channel-identification signal of the invention which is issued by the digital decoder or receiver/decoder for use by the user device includes a
 15 digital data message having information representative of a transition that has occurred amongst transitions taken from the group comprising: a change in the channel selected by the decoder; a change in the state of the decoder amongst active, standby, and off states; and a
 20 change of access condition to the selected channel.

Advantageously, before the message, the signal also comprises a prefix identifying the type of transition represented by the message, i.e. a change of state or some other transition.

Most advantageously, when there is a change of
 25 channel, it includes a channel identifier corresponding to the newly selected channel. The channel identifier can include, in particular, data that encodes the program channel, data that encodes the digital multiplex,
 30 and/or data that encodes the originating upstream transport network.

The message can also include at least one piece of information from the group comprising: a reference to the subscriber holding the decoder; a reference identifying
 35 the decoder; rating verification data transmitted by the network and received by the decoder; time and date stamping data; and a message number which is incremented

on each occasion that a new message is produced by the decoder.



5

A detailed implementation of the invention is described below, and naturally it is not limiting in any way.

In this example the implementation is performed entirely by software means, which makes it possible in particular to make use of preexisting decoders without having to take any action on them other than changing a particular piece of software referred to herein as the "audience-rating software". This audience-rating software can be changed at the same time as the general control software of the decoder is changed (essentially the software which controls access and the interface drivers), and can even be downloaded, e.g. via the telephone link with which the decoder is provided or via the broadcast network. The audience-rating software can also be incorporated systematically in all decoders and be activated only when required, with activation being possibly implemented merely by sending a signal remotely.

For communication with the audience rater, the rater can advantageously be connected to preexisting sockets of the decoder, such as a serial port or a parallel port (ports which are very rarely used simultaneously in practice by TV viewers), or even possibly via a "audio output" socket of the decoder, or as a branch connection to the microcircuit card connector.

In this way, there is no need to add additional hardware elements nor any need to add additional software for controlling added hardware elements.

Furthermore, the software of the invention can advantageously make use of standard computer interfaces, such as the application programming interfaces (API

interfaces) that already exist in the general control software of the decoder.

Advantageously, the decoder communicates with the audience rater in one direction only.

5 In order to avoid disturbing or slowing down the operation of the decoder, it is desirable to ensure that the audience-rating software of the decoder never listens to the audience rater connected to the decoder. It is thus the audience-rating software itself that locally
10 analyzes the signals produced within the decoder and, at its own initiative, formats messages for sending to the remote audience rater that is connected to the decoder.

The on-board audience-rating software inside the decoder is activated under two distinct circumstances:

15 - each time there is a change of channel or of access condition to the selected program (where "access condition" refers to programs to which access is conditional, such as programs that are encrypted or in the clear depending on the time of day, programs with
20 subscriptions that allow a program to be viewed only at certain times and not at others, authorized pay-per-view, or indeed having rights that have expired, etc.); and

- when the decoder switches between active mode and standby mode (or off mode).

25 The audience-rating software serves mainly to extract from within the decoder information that is pertinent in terms of audience ratings, and to form a message containing this information for sending to the audience rater.

30 In both of the circumstances mentioned above, and using the standard API interfaces of the decoder, the audience-rating software sends a specific message over the communications interface selected for its connection with the audience rater.

35 These messages are of two types:

- a first type, referred to below as "type 1", when changing channel or changing access condition to the channel; and

5 - a second type referred to below as "type 2" when changing to standby or when waking up the decoder (or when turning it off or on).

These messages are formatted in the manner described below.

10 Type 1 messages: audience-rating data

A type 1 message is sent every time there is a change of program or of access condition to a program, or optionally periodically even in the absence of any such change (e.g. once every minute).

15 The nominal length of this message is 52 bytes.

The message proper (the payload message) is preceded by a prefix comprising:

20 - a starting synchronization pattern or "tag" coded on 8 bytes and serving to show that the following message is a message for an audience rater (this tag is arbitrary, but constant); and

- a 1-byte message identifier specifying the type of message: in this case a type 1 message.

25 The message proper, following the prefix, serves to identify the channel and the access conditions that were operative at the instant in question. It is made up as follows:

30 - optionally subscriber reference information on 5 bytes to identify the beneficiary of a subscription or a service;

- optionally, a decoder reference on 8 bytes, to distinguish between different types of decoders and their software versions;

35 - optionally a "rating identifier" on 4 bytes: this is a binary sequence that varies in arbitrary manner over time and that is transmitted over the digital TV broadcast network and that is received by the decoder

which forwards it without change to the audience rater for purposes concerned with subsequent authentication when the data collected by the audience rater is actually used at the processing center (for example to verify that the audience raters are indeed connected to the decoders);

- a channel identifier on 12 bytes made up as follows (use is made here by way of example and without limiting character of the triplet "Service_ID Transport_stream_ID + Network_ID" of the DVB specification):

- 4 bytes encoding the program channel ("Service_ID");

- 4 bytes encoding the digital multiplex, i.e. enabling the upstream transport carrier frequency to be identified ("Transport_stream_ID"); and

- 4 bytes optionally encoding the originating upstream transport network ("Network_ID");

- a 1-byte program state word (see below), constituted by Boolean flags and indicating the following, for example:

- whether the channel is being broadcast in the clear or in encrypted form;

- which tuner (syntonizer) is originating the signals assuming the decoder possesses two tuners, No. 1 and No. 2;

- whether sound is muted or not;

- whether the program is being picked up by the decoder or whether it comes from Peritel (SCART) socket No. 1 if the decoder has such a socket;

- whether the program is being picked up by the decoder or whether it comes from Peritel (SCART) socket No. 2 if the decoder has such a socket;

- whether the program is picked up by the decoder or by a locally generated menu; and

- whether the program is being viewed in the clear (a non-encrypted program or a program that is

encrypted and has been decoded), or whether the program is being viewed in encrypted form, which corresponds to a situation that should not be taken into account when establishing audience ratings;

- 5 - optionally time and date information on 4 bytes;
- a 1-byte message number: this value is incremented modulo 128 each time a new message is sent by the audience-rating software and serves to enable the audience rater to verify that the messages sent by the
- 10 decoder are coming properly in succession; and
- an 8-bit end pattern or "tag".

Type 2 messages: decoder activity

15 A type 2 message is sent each time there is a change in the state of the decoder. Assuming that the decoder has three different states (on, off, and standby), this corresponds to six possible transitions, and can therefore be encoded on 3 bits.

20 A type 2 message has a nominal length of 40 bytes and comprises the following data:

- a starting pattern or "tag" on 8 bytes;
 - a message identifier on 1 byte specifying that this is a type 2 message;
 - 25 - optionally the subscriber reference information on 5 bytes;
 - optionally the decoder reference on 8 bytes;
 - optionally the rating identifier on 4 bytes;
 - the state of the decoder on 1 byte (only 3 bits being used) corresponding to all six possible
 - 30 transitions;
 - optionally time and date information on 4 bytes;
 - the message number on 1 byte; and
 - the end pattern or "tag" on 8 bytes.
-

CLAIMS

1/ A method enabling a user device such as an audience
rater to identify a television channel selected by a
digital decoder or receiver/decoder, the method being
5 characterized in that it comprises implementing the
following steps:

- a) taking from within the decoder digital data
forming a channel identifier;
- b) detecting a change in the selected channel;
- 10 c) when a change is detected, producing a digital
data message including the new channel identifier;
- d) transmitting the message to the user device; and
- e) making use of the message within the user device,
in particular for statistical purposes.

2/ The identification method of claim 1, in which steps
a) to c) are implemented by software means internal to
the decoder.

3/ The identification method of claim 2, in which the
software means implementing steps a) to c) are
incorporated in the general control software of the
decoder or in its access control module, where
applicable.

4/ The identification method of claim 1, in which step d)
is implemented via a non-specific access port of the
decoder, in particular a computer serial or parallel
port, or in parallel on the microcircuit card connector.

5/ The identification method of claim 1, in which a
change in an access condition to the selected channel is
detected, and in step c), an access message is produced
including an access condition indicator, or a
35 corresponding access condition transition indicator.

6/ The identification method of claim 1, in which a change of state of the decoder is also detected between the active, standby, and off states, and in step c), an access message is produced including a state indicator or
 5 a corresponding state transition indicator.

7/ The identification method of claim 5 or claim 6, in which, in step c), a prefix is added to the message identifying the type of transition represented by the
 10 message, either a change in state or some other transition.

8/ The identification method of claim 5 or claim 6, in which, in step c), the message includes at least one piece of information taken from the group comprising: a reference for the subscriber holding the decoder; a reference identifying the decoder; rating verification data transmitted over the network and received by the
 15 decoder; time and date information; and a message number which is incremented each time a new message is produced by the decoder.
 20

9/ The identification method of claim 1, in which the channel identifier taken in step a) includes data
 25 encoding the program channel, data encoding the digital multiplex, and/or data encoding the originating upstream transport network.

10/ A digital signal identifying the channel issued by a digital decoder or receiver/decoder to a user device such as an audience rater, the signal being characterized by a digital data message comprising information
 30 representative of a transition that has occurred amongst the transitions taken from the group comprising: a change of channel selected by the decoder; a change of decoder state amongst the active, standby, and off states; and a change of access condition to the selected channel.
 35

11/ The digital signal of claim 10, further comprising,
before the message, a prefix identifying the type of
transition represented by the message, either a change of
state, or some other transition.

12/ The digital signal of claim 10, in which the message
comprises, when there is a change of channel, a channel
identifier corresponding to the newly selected channel.

13/ The digital signal of claim 12, in which the channel
identifier includes data encoding the program channel,
data encoding the digital multiplex and/or data encoding
the originating upstream transport network.

14/ The digital signal of claim 10, in which the message
further comprises at least one piece of information from
the group comprising: a reference for the subscriber
holding the decoder; a reference identifying the decoder;
rating verification data transmitted by the network and
received by the decoder; time and date data; and a
message number which is incremented each time a new
message is produced by the decoder.

RULE 63 (37 C.F.R. 1.63)
INVENTORS DECLARATION FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, mailing address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD OF IDENTIFYING, WITH A USER DEVICE SUCH AS AN AUDIENCE-RATER, A TELEVISION CHANNEL SELECTED BY A DIGITAL DECODER OR RECEIVER/DECODER

the specification of which (check applicable box(es)):

☐ is attached hereto
☒ was filed on December 17, 2001 as U.S. Application Serial No. (Atty Dkt. No. 677-27)
☐ was filed as PCT International application No. PCT/FR00/001675 on 16/06/2000
and (if applicable to U.S. or PCT application) was amended on _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

Priority Foreign Application(s):	Application Number	Country	Day/Month/Year Filed
	<u>99/07676</u>	<u>FR</u>	<u>17/06/1999</u>

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

Application Number	Date/Month/Year Filed
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I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below:

Prior U.S./PCT Application(s):	Application Serial No.	Day/Month/Year Filed	Status: patented pending, abandoned
	<u>PCT/FR00/001675</u>	<u>16/06/2000</u>	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8th Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed), and the following attorneys thereof (of the same address) individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business with the Patent and Trademark Office connected therewith and with the resulting patent: Larry S. Nixon, 25640; Arthur R. Crawford, 25327; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Basha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffrey H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29368; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 32334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoa, 37515; Raymond Y. Mah, 41426; Chris Comuntzis, 31097; Gary T. Tanigawa, 43180. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1.	Inventor's Signature: <u>Antoine Laurens</u>	Date: <u>Feb. 26, 2002</u>
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☐ See attached sheet(s) for additional inventor(s) information!!